

ATGL-2400: ADVANCED RIGGING & HOISTING

Cuyahoga Community College

Viewing: ATGL-2400 : Advanced Rigging & Hoisting

Board of Trustees:

2001-04-26

Academic Term:

Spring 2019

Subject Code

ATGL - Appld Indus Tech - Glazing

Course Number:

2400

Title:

Advanced Rigging & Hoisting

Catalog Description:

Advanced procedures of rigging and hoisting, including rope materials, care, and handling, knot tying, slings, rigging hardware and hoisting techniques; hand signals; and safety procedures.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATPT-1300 Introduction to Painting, Drywall Finishing and Glazing, and ATPT-1320 Safety Standards for Construction (OSHA-10); or departmental approval.

Outcomes

Course Outcome(s):

N/A

Objective(s):

1. Identify, handle, and store rigging and hoisting equipment.
2. Interpret safety rules and precautions and perform safety inspections on rigging and hoisting equipment.
3. Perform hoisting procedures related to the glazing trade.
4. Differentiate and perform basic knot, loop, and hitch tying.
5. Identify and use standard hand signals.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of project assignments in a laboratory setting

Course Content Outline:

1. Construction ropes
 - a. Natural fiber ropes
 - b. Synthetic fiber ropes

- i. nylon
 - ii. polyester
 - iii. polypropylene
 - c. Care, handling, and inspection of fiber ropes
 - d. Wire rope
 - i. care and handling
 - ii. safety inspection
 - e. Safety factors
- 2. Knots
 - a. Terminology
 - b. Commonly used knots, hitches, and loops
- 3. Slings
 - a. Wire rope slings
 - b. Synthetic webbing slings
 - c. Sling angles
 - d. Sling hitches
 - i. single basket hitch
 - ii. double basket hitch
 - iii. bridle hitch
 - e. Sling storage
- 4. Rigging hardware
 - a. Hooks
 - b. Shackles
- 5. Rigging safety
- 6. Hoisting applications
 - a. Hoisting cases of glass and other materials
 - b. Unloading onto an outside hoist
 - c. Dollies
 - d. Materials storage
 - e. Hoisting individual lites of glass
- 7. Hand signals

Resources

"Rigging and Hoisting--The Basics"

"Rigging and Hoisting Application Hand Signals"

"Rigging and Hoisting--The Basics"

"Rigging and Hoisting Application Hand Signals"

Top of page

Key: 359